

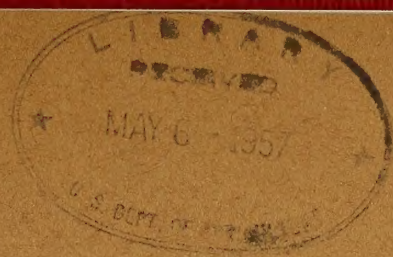
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SNOW SURVEYS AND IRRIGATION WATER FORECASTS  
FOR OREGON

AS OF

MARCH 1, 1940

\* \* \*

Issued March 9, 1940

by

Division of Irrigation, Soil Conservation Service  
United States Department of Agriculture  
and  
Oregon Agricultural Experiment Station, Medford Branch  
Cooperating

\* \* \* \* \*

Data included in this report were obtained by  
the agencies listed above, in cooperation with the  
Oregon State Engineer, U. S. Forest Service, National  
Park Service and other Federal, State and local organ-  
izations. 1/

\* \* \*

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Soil Conservation Service  
U. S. Department of Agriculture  
Washington, D. C.







1/ The snow measurements are made principally by field personnel of the following organizations:

STATE

Idaho Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon State Engineer and corps of State Watermasters  
Oregon State Highway Engineers

FEDERAL

Department of Agriculture  
Forest Service  
Soil Conservation Service  
Weather Bureau  
Department of Interior  
Biological Survey  
Bureau of Reclamation  
Geological Survey  
Indian Service  
National Park Service

PUBLIC UTILITIES

Eastern Oregon Light and Power Company  
Portland General Electric Company  
The California Oregon Power Company

MUNICIPALITIES

City of Corvallis  
City of LaGrande  
City of The Dalles

MUNICIPAL DISTRICTS

Central Oregon Irrigation District  
Deschutes County Municipal Improvement District  
Grants Pass Irrigation District  
Lakeview Water Users' Association  
Medford and Rogue River Irrigation Districts  
Ochoco Irrigation District  
Warm Springs Irrigation District

2/ Water content determined by melting a measured sample.  
(The California Oregon Power Company's station.)

3/ N. R. = No report.



Department of Health and Human Services  
Public Health Service  
Bull. Comm. on the Status of the  
Health Forces  
Number 100  
Washington, D. C.  
1964

1875



# STATUS OF VALLEY PRECIPITATION AS OF OCTOBER 1 TO DATE

Month	Oct.		Nov.		Dec.		Jan.		Feb.		Period	
Section	P	D	P	D	P	D	P	D	P	D	P	D
S. E.	.69	-0.03	.11	-0.78	1.30	+0.26	1.5	+0.4	2.5	+1.6	6.10	+1.45
S. C.	1.14	+0.14	.05	-1.65	4.23	+2.48	1.9	0.0	3.5	+1.1	10.82	+2.07
N. C.	.43	-0.37	.07	-1.48	2.25	+0.75	2.6	+0.8	1.8	+0.6	7.15	+0.30
Col. Riv.	.38	-0.58	.04	-1.76	1.90	+0.30	2.2	+0.6	3.6	+2.3	8.12	+0.86
Wal. Mts.	2.09	+0.84	.09	-1.88	2.13	+0.18	1.1	-0.6	1.5	-0.1	6.91	-1.56
Blue Mts.	1.11	-0.38	.12	-1.93	2.16	+0.27	2.2	+0.1	3.0	+1.2	8.59	-0.74
Southern	2.28	+0.43	.15	-3.74	7.17	+3.44	2.8	-1.3	7.3	+3.9	19.70	+2.73
Willamette	3.98	+0.10	1.44	-6.55	10.26	+2.30	5.6	-2.0	12.7	+6.6	33.98	+0.45
Area	1.51	+0.02	0.26	-2.47	3.92	+1.25	2.5	-0.2	4.5	+2.2	12.67	+0.70

P - Inches precipitation.

D - Inches departure from normal.

S.E. - Southeastern Oregon range lands, Harney and Malheur Counties.  
 S.C. - Southcentral Oregon range lands, Lake County and Klamath County, except the Cascade Mountains.  
 N. C.- Northcentral Oregon Wheat and range lands, Crook, Deschutes, Jefferson, Wheeler and part of Grant Counties.

Col. Riv. - Columbia River area, wheat and range lands, Gilliam, Morrow, Sherman, Wasco and part of Umatilla Counties.

Wal. Mts. - Wallowa Mountain area, forest and range lands, Wallowa and part of Baker County.  
 Blue Mts. - The Blue Mountain forest and range area, Union and parts of Baker, Grant and Umatilla Counties.

Southern - Southern Oregon irrigated section, Jackson and Josephine Counties.  
 Willamette - Parts of Polk, Benton, Yamhill, Washington, Lane and all of Linn, Marion, Clackamas and Multnomah Counties.

Note: Data for the last two months shown above are preliminary only, as they are based on a few stations only. Data for earlier months have been corrected to include all the stations in climatological data for the area.







# STATUS OF RESERVOIR STORAGE AS OF MARCH FIRST

In the following tabulation, water storage in acre feet in some selected Oregon reservoirs as of about March 1, 1940 is compared with storage as of February 1, 1940, as well as with storage as of approximately March 1 of 1939, 1938 and 1937.

Storage Reservoir	Stream Basin	Capacity Acre Ft.	Acre Feet in Storage				
			About 3-1-40	About 2-1-40	About 3-1-39	About 3-1-38	About 3-1-37
Agency Valley	Malheur	60,000	N.R.	41,290	44,120	27,670	19,950
Antelope	Owyhee	33,434	Empty	Empty	3,900	14,000	4,500
Clear Lake	Lost River	440,240 <sup>b</sup>	241,480 <sup>b</sup>	183,000 <sup>b</sup>	230,160 <sup>b</sup>	120,160 <sup>b</sup>	47,420 <sup>b</sup>
Crane Prairie	Deschutes	55,220 <sup>c</sup>	37,000 <sup>a</sup>	29,210	30,800	40,235	37,800
Crescent Lake	Deschutes	80,000	31,480	28,900	56,760 <sup>e</sup>	33,680	26,300
Drew Creek	Goose Lake	62,500	N.R.	17,850	33,390	42,460	35,500
Emigrant Gap	Rogue	8,200	Full	5,803	2,716	6,704	1,090
Fish Lake	Rogue	7,720	4,430	3,959	6,127	4,350	4,884
Four Mile Lake	Klamath <sup>d</sup>	14,000	7,826	7,484	10,394	11,767	8,747
Gerber	Klamath	94,000	59,220 <sup>b</sup>	36,370 <sup>b</sup>	36,370	35,050	35,540
Hyatt Prairie	Klamath	16,000	4,400	2,885	10,810	7,665	5,000
McKay	Umatilla	75,000	32,840	15,120	30,110	30,790	8,054
Ochoco	Crooked	47,500	4,060	3,740	21,900	14,710	2,100
Owyhee	Owyhee	715,000	464,170	392,760	534,020	600,000 <sup>e</sup>	630,230
Thief Valley	Powder	17,400	11,912	5,600	11,045	17,400	8,180
Upper Klamath Lake	Klamath	524,800 <sup>b</sup>	383,500 <sup>b</sup>	265,800 <sup>b</sup>	405,400 <sup>b</sup>	421,800 <sup>b</sup>	226,900 <sup>b</sup>
Wallowa Lake	Wallowa	40,920	11,710	10,930	36,960	14,610	7,120
Warm Springs	Malheur	170,000	85,500	74,700	141,600	42,250	16,000
Willow Creek	Malheur	26,000	600 <sup>e</sup>	600 <sup>e</sup>	4,000 <sup>a</sup>	750	Dry

a - Estimated.

b - Available for use.

c - 40,500 by agreement.

d - By ditch to Rogue River side.

e - Approximate.



REPORT MADE TO THE DIRECTOR OF AGRICULTURE

AGRICULTURE DEPARTMENT, WASHINGTON, D. C. 1911  
 The following report was made to the Director of Agriculture by the  
 Agricultural Experiment Station, Washington, D. C. 1911

Station	Area	Yield	Quality	Remarks
1911	1000	1000	1000	1000
1912	1000	1000	1000	1000
1913	1000	1000	1000	1000
1914	1000	1000	1000	1000
1915	1000	1000	1000	1000
1916	1000	1000	1000	1000
1917	1000	1000	1000	1000
1918	1000	1000	1000	1000
1919	1000	1000	1000	1000
1920	1000	1000	1000	1000
1921	1000	1000	1000	1000
1922	1000	1000	1000	1000
1923	1000	1000	1000	1000
1924	1000	1000	1000	1000
1925	1000	1000	1000	1000
1926	1000	1000	1000	1000
1927	1000	1000	1000	1000
1928	1000	1000	1000	1000
1929	1000	1000	1000	1000
1930	1000	1000	1000	1000

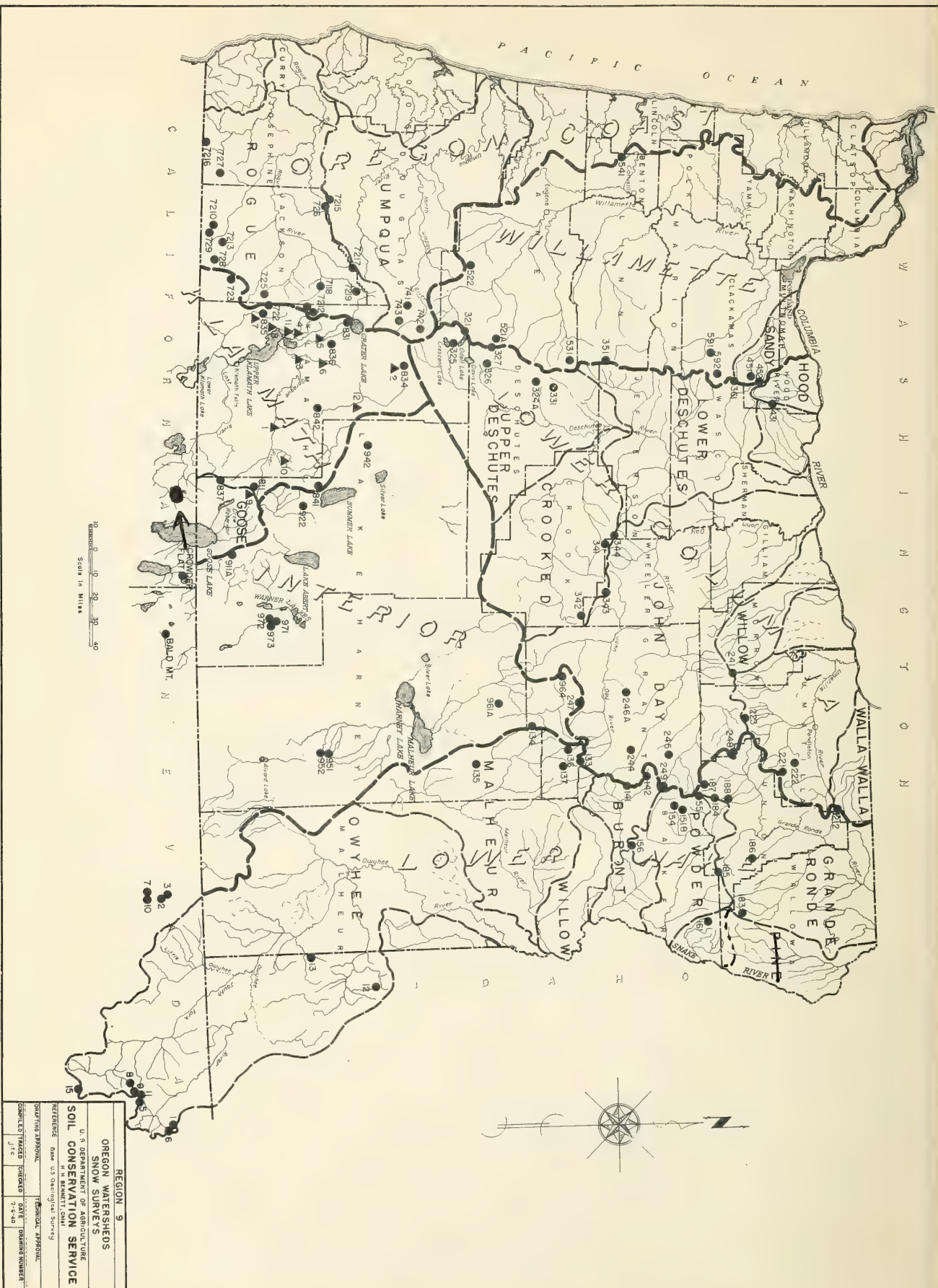
Station	Area	Yield	Quality	Remarks
1911	1000	1000	1000	1000
1912	1000	1000	1000	1000
1913	1000	1000	1000	1000
1914	1000	1000	1000	1000
1915	1000	1000	1000	1000
1916	1000	1000	1000	1000
1917	1000	1000	1000	1000
1918	1000	1000	1000	1000
1919	1000	1000	1000	1000
1920	1000	1000	1000	1000
1921	1000	1000	1000	1000
1922	1000	1000	1000	1000
1923	1000	1000	1000	1000
1924	1000	1000	1000	1000
1925	1000	1000	1000	1000
1926	1000	1000	1000	1000
1927	1000	1000	1000	1000
1928	1000	1000	1000	1000
1929	1000	1000	1000	1000
1930	1000	1000	1000	1000

AGRICULTURE DEPARTMENT, WASHINGTON, D. C. 1911  
 The following report was made to the Director of Agriculture by the  
 Agricultural Experiment Station, Washington, D. C. 1911









REGION 9  
 OREGON WATERSHEDS  
 SNOW SURVEYS  
 U. S. GEOLOGICAL SURVEY  
 SOIL CONSERVATION SERVICE  
 REFERENCE: 1940 U. S. Geological Survey  
 COMPLETION: 1940  
 DATE: 1940  
 DRAWING NUMBER: 7-4-40



# INDEX TO SNOW COURSES

Number	Name	Elev.	Number	Name	Elev.	Number	Name	Elev.
UPPER COLUMBIA DRAINAGE								
Lower Snake in Oregon								
OWHSEE RIVER								
Nov. 1	Big Bend	6800	212	WALLA WALLA RIVER	5070	942	SILVER LAKE	
Nov. 2	Buckskin, Lower	6800		Tollgate			Silver Creek	4900
Nov. 3	Buckskin, Upper	8200		UMATILLA RIVER			CHEWCHAN RIVER	
952	Fish Creek	7900				922	Mill Creek	6200
Nov. 5	Fry Canyon	6800	222	Emigrant Springs	3925			
Nov. 6	Gold Creek Hanger Sta.	6600	223	Lucky Strike	5050			
Nov. 7	Granite Peak	8600	221	Meacham	4300			
Nov. 8	Jack Creek, Lower	7000	212	Tollgate	5070			
Nov. 9	Jack Creek, Upper	7800		WILLOW CREEK		973	Deer Creek	6670
Nov. 10	Martin Creek	7000				952	Fish Creek	7900
Nov. 11	Rodeo Flat	7000				971	Hart Mountain	6350
Ida. 12	Silver City	6400	241	Arbutus Mountain	5400	961A	Idylwild Park	5200
Ida. 13	Silveras	6900		JOHN DAY RIVER		964	Izee Summit	5293
Ida. 14	South Mountain	5100				965	Rock Spring	5100
Nov. 15	Taylor Canyon	5200				966	Silveras	6900
						247	Starr Ridge	5156
MALHEUR RIVER								
133	Blue Mountain Spring	5900	241	Arbutus Mountain	5400	911A	Camas Creek	5720
137	Crane Prairie	5375	246A	Beech Creek Summit	4800	811	Quartz Mountain	5320
136	Lake Creek	5120	133	Blue Mountain Spring	5900	837	Strawberry	5600
134	Rock Spring	5100	141	Blue Mountain Summit	5098			
135	Stinking Water	4800	244	Dixie Springs	6650			
			245	Olive Lake	6000			
			249	Gold Center	5340			
			964	Izee Summit	5293			
			248	Schoolmarm	4775			
			247	Starr Ridge	5156			
BURNT RIVER								
141	Blue Mountain Summit	5098		DESCHUTES RIVER		972	Bald Mountain	6720
136	Dooley Mountain	5430					Guano Creek	6480
142	Tipton	5100						
POWDER RIVER								
155	Anthony Lake	7125	326	Calwell Ranch	4400			
154	Bourne	5800	321	Cascade Summit	4880			
156	Dooley Mountain	5430	327	Chapel Lake	5750			
1518	Ellerton Meadows	5400	361	Clear Lake	5760			
249	Gold Center	5340	325	Grescent Lake	4760			
184	Summit Springs	6000	343	Hogg Pass	5670			
185	Taylor Green	5740	351	Mark's Creek	4755			
			344	New Ditchman Flat	4540			
			324A	Ochocho Meadows	6000			
			341	Tamarack	5200			
			342	Three Creeks Meadows	4800			
			331		5600			
PINE CREEK								
161	Schneider Meadows	5400		HOOD RIVER		7216	Althouse	4400
				Brooks Meadows	4300	831	Annie Spring	6018
			431			729	Big Red Mountain	6500
				SANDY RIVER		722	Billie Creek Divide	6000
183	Aneroid Lake	7480				725	Fish Lake	4865
155	Anthony Lake	7125				726	Goolaway Gap	3000
188	Beaver Reservoir	5340	361	Clear Lake	5760	7215	Goolaway Mountain	3730
187	Camp Carson	5970	452	Phila Point - Mt. Hood	3100		Grayback Peak	6000
248	Moss Spring	5860	451	Still Creek	3700	7230	Hyatt Prairie Reservoir	4900
184	Schoolmarm	4775				7210	Little Red Mountain	6500
185	Summit Springs	6000				7211	Seven Lakes No. 1	6800
212	Tollgate	5070				7212	Seven Lakes No. 2	6200
						7219	Silver Butte	5720
						728	Siskiyou Summit	4650
						7218	South Fork Canal	4900
						7213	Wagner Butte	6000
						7217	Whaleback	5140
WILLAMETTE RIVER								
321	Cascade Summit	4880						
322	Champion	4500						
327	Charlton Lake	5750						
351	Hogg Pass	4755						
351	McKenzie	4800						
341	Mary's Peak	3620						
321A	Waldo Lake	5500						
Klamath Lake Basin								
831	Annie Spring	6018						
722	Billie Creek Divide	6000						
834	Chemit No. 1	4760						
723	Hyatt Prairie Reservoir	4900						
835	Lake of the Woods	4960						
811	Quartz Mountain	5320						
721A	Seven Lakes No. 1	6800						
7212	Seven Lakes No. 2	6200						
837	Silver Butte	5720						
841	Sun Mountain	5350						
836	Taylor Butte	5100						
842								
GOOSE LAKE BASIN								
911A	Camas Creek	5720						
811	Quartz Mountain	5320						
837	Strawberry	5600						
INDEX TO CALIFORNIA-OREGON POWER COMPANY SNOW WATER STATIONS								
Klamath Lake Basin								
1	Beatty	4200						
2	Chemit	4761						
3	Chiloquin	4187						
4	Crystal	4260						
5	Fort Klamath	4330						
6	Kirk	4337						
7	Lake of the Woods	4960						
8	Pelican	4200						
9	Quartz Mountain	5304						
10	Richardson Ranch	4800						
11	Rocky Point	4150						
12	Yamsey	4600						
GOOSE LAKE BASIN								
9	Quartz Mountain	5504						







COMPARISON OF SNOW COVER AS OF MARCH FIRST  
WITH THAT OF PREVIOUS YEARS

Generally heavy storms during February increased the snow cover at higher elevations very materially over the amounts reported for Oregon as of February 1, 1940. For elevations above 5,000 feet, of the 42 snow courses reporting March 1, 1940, 29 were measured last month, 38 were measured about March 1, 1939, 31 were measured about March 1, 1938 and 24 were measured about March 1, 1937. Comparison of records on these courses for the approximate dates mentioned follows:

Snow cover (water content) now present above 5,000 feet:

As percent of that present one month ago	-----	483
As percent of that present one year ago	-----	83
As percent of that present two years ago	-----	91
As percent of that present three years ago	-----	76

For elevations from 3,000 to 5,000 feet, of the 29 courses and Copco water stations reporting about March 1, 1940, 29 were measured last month, 29 were measured about March 1, 1939, 24 were measured about March 1, 1938 and 17 were measured about March 1, 1937. Comparison of records on these courses for the approximate dates mentioned follows:

Snow cover (water content) now present from 3,000 to 5,000 feet:

As percent of that present one month ago	-----	245
As percent of that present one year ago	-----	36
As percent of that present two years ago	-----	47
As percent of that present three years ago	-----	18

Snow water content on 83 percent of all courses at all elevations is less than at this time last year and, with 16 exceptions out of 96 comparisons, is substantially less than on about March 1 of either 1938 or 1937.

The greatest increase in snow cover since last month at elevations above 5,000 feet occurred in the Malheur, Burnt and Power River basins. Snow cover on many stream basins and especially below the 5,000 foot level, remains deficient and heavier than normal snowfall will be required during March if late summer stream flow in these basins is to even equal that of last year.

Soil of the watersheds, without important exception, is unfrozen and in all locations is reported as wet to very wet. Frost generally went out of the ground by late February.

Final seasonal snow measurements will be made on all Oregon snow courses during the closing days of March and more definite water supply forecasts will be issued early in April.



The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's development.

The second part of the report deals with the economic situation of the country. It is a very interesting and informative study of the country's economic development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's economic development.

The third part of the report deals with the social situation of the country. It is a very interesting and informative study of the country's social development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's social development.

The fourth part of the report deals with the political situation of the country. It is a very interesting and informative study of the country's political development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's political development.

The fifth part of the report deals with the cultural situation of the country. It is a very interesting and informative study of the country's cultural development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's cultural development.

The sixth part of the report deals with the environmental situation of the country. It is a very interesting and informative study of the country's environmental development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's environmental development.

The seventh part of the report deals with the international situation of the country. It is a very interesting and informative study of the country's international development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's international development.

The eighth part of the report deals with the future of the country. It is a very interesting and informative study of the country's future development and progress. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's future development.



STATUS OF SNOW COVER AS OF MARCH FIRST (Con't.)

Summary of Snow Survey Data  
by Tributary Drainages as of about March First

Tributary Drainage	Number of snow courses averaged	Average Water Depth in Snow Cover (Inches)				1940 Snow Water Depth (In.) expressed as % of that in			
		1940	1939	1938	1937	1939	1938	1937	5
Owyhee River	12	7.2	7.8			92			
	12	7.2		6.4			112		
	12	7.2			9.0			80	
Malheur River	2	5.8	4.7			123			
	2	5.8		4.7			123		
	2	5.8			5.4			107	
Burnt River	2	6.8	7.2			94			
	1	5.4		6.7			81		
	1	5.4			9.3			58	
Powder River	5	12.7	13.5			94			
	2	13.1		12.8			102		
	1	13.0			10.2			127	
Grande Ronde River	3	13.1	21.2			62			
	1	18.0		19.6			92		
	-	-			-			-	
Walla Walla River	1	18.1	34.6			52			
	-	-		-			-		
	-	-			-			-	
Umatilla River	4	9.9	18.2			54			
	2	6.6		5.9			112		
	-	-			-			-	
John Day River	7	6.1	9.3			66			
	5	6.1		8.0			76		
	5	6.1			10.3			59	
Crooked River	2	5.5	7.6			72			
	2	5.5		7.4			74		
	1	8.0			13.6			59	
Sandy River	2	18.6	38.5			48			
	2	18.6		27.8			67		
	-	-			-			-	

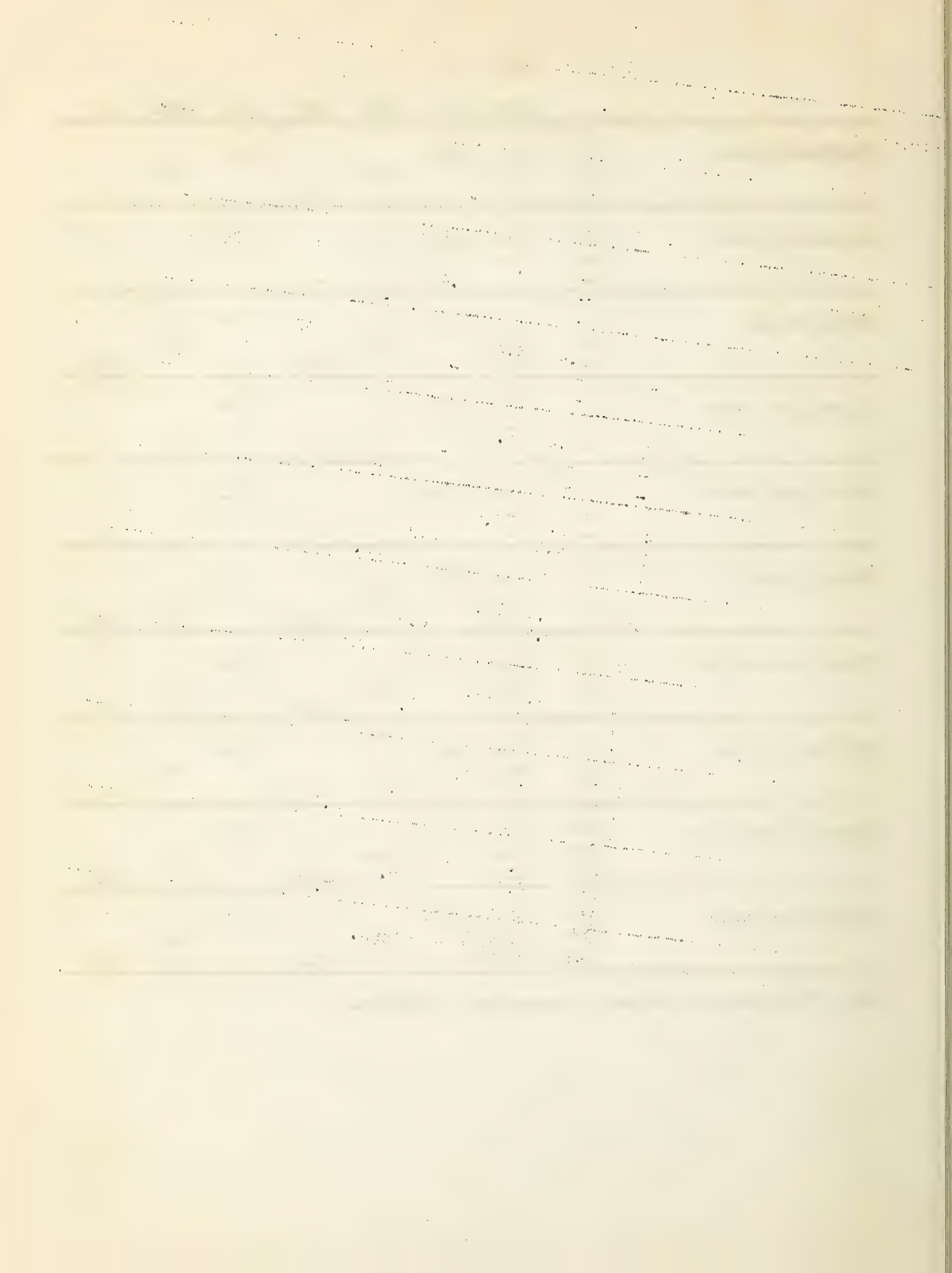




		1940	1939	1938	1937	1939	1938	1937
Clackamas River	2	6.7	16.4			41		
	2	6.7		11.6			58	
	-	-			-			-
Willamette River	1	9.6	37.0			26		
	-	-		-			-	
	-	-			-			-
Harney Basin	5	4.2	5.8			72		
	4	4.5		5.4			83	
	4	4.5			7.3			62
Silver Lake Basin	1	1.4	4.4			32		
	-	-		-			-	
	-	-			-			-
Abert Lake Basin	1	6.0	5.4			111		
	-	-		-			-	
	-	-			-			-
Umpqua River	4	5.5	17.8			31		
	1	9.6		18.2			53	
	1	9.6			21.2			45
Upper Rogue River	10	7.9	15.2			52		
	8	9.5		16.9			56	
	7	8.8			20.0			44
Applegate River	1	14.3	14.5			99		
	1	14.3		16.7			86	
	-	-			-			-
Klamath Lake Basin	20*	5.7	9.5			60		
	18*	6.2		10.8			57	
	15*	4.9			11.4			43
Goose Lake Basin	3*	4.0	6.8			59		
	2*	4.4		9.6			46	
	1*	3.8			7.2			53

Note: \*Including Copco water measurement stations.





# TRIBUTARY BASINS

(Primary & Secondary  
& Snow Courses)

LOCATION	Oregon Number	Sec. Twp. Range	Elev.	Date	SNOW COVER MEASUREMENTS			AVERAGE WATER DEPTH (INCHES)		
					About March 1, 1940			One Month ago (2-1-40) (3-1-39) (3-1-38) (3-1-37)	Two Years ago (3-1-38) (3-1-37)	Three Years ago (3-1-37)
					Avg. Snow Depth (In.)	Avg. Water Depth (In.)	Avg. Depth (In.)			

## U P P E R C O L U M B I A D R A I N A G E L O W E R S N A K E I N O R E G O N

### OWYHEE RIVER

Granite Peak	Nev.	27	44N	39E	8600	3-3	44.1	15.0	-	12.8	13.5	7.9
Upper Buckskin	Nev.	14	45N	39E	8200	2-29	26.2	10.8	-	8.0	7.2	6.8
Upper Jack Creek	Nev.	9	42N	53E	7800	3-1	25.0	9.3	-	12.9	4.5	7.3
Lower Jack Creek	Nev.	19	42N	53E	7000	3-1	4.0	1.3	-	7.9	2.4	4.5
Martin Creek	Nev.	24	44N	39E	7000	2-28	21.4	6.8	-	5.8	8.1	6.0
Rodeo Flat	Nev.	31	43N	54E	7000	3-1	24.6	7.5	-	11.0	6.5	8.6
Big Bend	Nev.	30	45N	56E	6800	3-3	21.4	6.4	-	7.2	8.2	9.4
Fry Canyon	Nev.	32	43N	54E	6800	3-1	21.7	6.4	-	10.0	7.2	10.0
Lower Buckskin	Nev.	25	45N	39E	6800	3-1	17.9	5.8	-	6.7	8.1	8.3
Gold Creek Ranger Station	Nev.	32	45N	56E	6600	3-3	14.4	4.5	-	4.5	4.8	7.7
Silver City	Idaho	6	5S	3W	6400	2-29	27.4	9.4	4.8	6.4	7.1	21.9
Taylor Canyon	Nev.	32	39N	53E	5200	3-1	9.5	3.0	-	6.0	4.9	7.8

### MALHEUR RIVER

Blue Mountain Spring	133	21	15S	35E	5900	(Measurements delayed)	3.6	13.9	19.0	15.3
Crane Prairie	137	24	16S	34E	5375	(by high water.)	3.0	10.1	8.1	-
Lake Creek	136	10	16S	33½E	5120	(	3.4	11.2	9.0	-
Rock Spring	134	23	18S	32E	5100	2-29	16.7	5.4	5.5	7.9
Stinking Water	135	6	21S	37E	4800	2-27	12.3	6.3	3.0	-

### BURNT RIVER

Dooley Mountain	156	32	11S	40E	5430	2-29	28.7	8.2	3.1	5.3	-
Blue Mountain Summit	141	6	12S	36E	5098	2-29	20.9	5.4	1.8	9.2	9.3



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TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS				AVERAGE WATER DEPTH (INCHES)			
(Primary & Secondary & Snow Courses)		Oregon Number	Sec. Twp. Range	Elev.	Date	Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month ago (2-1-40)	One Year ago (3-1-39)	Two Years ago (3-1-38)	Three Years ago (3-1-37)
POWDER RIVER											
Anthony Lake	155	18	7S 37E	7125	2-28	62.7	19.0	8.7	21.8	-	-
Bourne	154	33	8S 37E	5800	2-29	43.3	13.0	5.3	12.9	14.1	10.2
Dooley Mountain	156	32	11S 40E	5430	2-29	28.6	8.2	3.1	5.3	-	-
Eilertson Meadows	151B	18	8S 38E	5400	2-29	30.2	13.2	4.0	15.1	11.5	-
Gold Center	249	21	9S 36E	5340	3-1	31.7	10.3	3.9	12.6	-	-
GRANDE RONDE RIVER											
Anthony Lake	155	18	7S 37E	7125	2-28	62.7	19.0	8.7	21.8	-	-
Moss Spring	186	27	3S 41E	5860	3-1	57.8	18.0	7.5	-	19.6	-
Beaver Reservoir	188	8	5S 37E	5340		N.R.		7.4	16.6	-	-
Schoolmarm	248	28	4S 34E	4775	2-29	7.6	2.1	0.9	7.3	-	-
LOWER COLUMBIA DRAINAGE											
WALLA WALLA RIVER											
Tollgate	212	32	4N 38E	5070	2-25	61.4	18.1	5.9	34.6	-	-
UMATILLA RIVER											
Lucky Strike	223	28	3S 32E	5050	2-27	29.7	8.3	3.4	14.5	-	-
Meacham	221	24&25	1S 35E	4300	2-26	25.9	7.5	2.3	13.3	6.7	-
Emigrant Springs	222	29	1N 35E	3925	2-26	19.4	5.8	2.2	10.4	5.2	-
JOHN DAY RIVER											
Olive Lake	245	14	9S 33½E	6000	2-28	39.3	12.2	5.0	13.5	16.2	16.0
Blue Mountain Spring	133	21	15S 35E	5900	Measurement delayed.			3.6	13.9	19.0	15.3



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TRIBUTARY BASINS (Primary & Secondary & Snow Courses)	LOCATION		SNOW COVER MEASUREMENTS				AVERAGE WATER DEPTH (INCHES)				
			Oregon Number	Sec. Twp. Range	Elev.	Date	About March 1, 1940				
							Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month ago (2-1-40)	One Year ago (3-1-39)	Two Years ago (3-1-38)
Gold Center	249	21 9S	36E	5340	3-1	31.7	10.4	3.9	12.6	-	-
Izee Summit	964	28 16S	29E	5293	2-27	19.6	5.2	1.0	9.1	6.7	8.3
Starr Ridge	247	20 15S	31E	5156	2-27	10.9	3.2	1.1	5.6	3.3	7.3
Starr Ridge *	247B	20 15S	31E	5150	2-27	14.1	3.8	-	-	-	-
Blue Mountain Summit	141	6 12S	36E	5098	2-29	20.9	5.4	1.8	9.2	6.7	9.3
Beech Creek Summit	246A	4 12S	30E	4800	2-27	12.0	4.5	2.4	7.6	6.9	10.7
Schoolmarm	248	28 4S	34E	4775	2-29	7.6	2.1	0.9	7.3	-	-
DESCHUTES RIVER											
Ochoco Meadows	341	21 13S	20E	5200	2-27	29.7	8.0	1.8	9.6	10.0	13.6
Marks Creek	344	25 12S	19E	4540	2-26	10.9	3.1	2.1	5.6	4.8	-
SANDY RIVER											
Phlox Point - Mt. Hood	452	6 3S	9E	5600	3-1	81.5	29.6	9.7	54.7	42.8	-
Still Creek	451	25 3S	8½E	3700	3-1	21.7	7.6	3.0	22.4	12.8	-
CLACKAMAS RIVER											
Peavine Ridge	591	14&15 6S	7E	3500	3-5	20.3	7.6	3.2	19.2	13.0	-
Clackamas Lake	592	35 5S	8½E	3400	2-29	16.8	5.8	1.8	13.7	10.2	-
WILLAMETTE RIVER											
Champion	522	12 23S	1E	4500	2-29	30.0	9.6	1.7	37.0	-	-

Note: \* Relocation of course 247, which will be discontinued.





TRIBUTARY BASINS (Primary & Secondary & Snow Courses)	LOCATION		SNOW COVER MEASUREMENTS About March 1, 1940				AVERAGE WATER DEPTH (INCHES)			
	Oregon Number	Sec. Twp. Range	Elev.	Date	Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month ago (2-1-40)	One Year ago (3-1-39)	Two Years ago (3-1-38)	Three Years ago (3-1-37)

### I N T E R I O R   D R A I N A G E

#### SILVER LAKE

Silver Creek

942 25&26 29S 13E 4900 2-16 6.7 1.4 1.0 4.4 - -

#### CHEMAUCAN RIVER

Mill Creek

922 1 34S 17E 6200 3-4 23.0 6.0 - 5.4 - -

#### HARNEY BASIN

Deer Creek

973 17 36S 26E 6670 3-1 20.7 6.1 1.9 - - -

Hart Mountain

971 1 36S 25E 6350 3-4 8.9 2.8 1.2 - - -

Izee Summit

964 28 16S 29E 5293 2-27 19.6 5.2 1.0 6.7 8.3

Idylwild Camp

961A 33 20S 31E 5200 3-1 13.6 4.3 2.8 5.9 5.7

Starr Ridge

247 20 15S 31E 5156 2-27 10.9 3.2 1.1 5.6 7.3

Starr Ridge\*

247B 20 15S 31E 5150 2-27 14.1 3.8 - - -

Rock Spring

134 23 18S 32E 5100 2-29 16.7 5.4 3.2 5.8 7.9

Note\* See Page 10.

#### GUANO LAKE

Bald Mountain

Nev. 17 45N 21E 6720 2-26 12.6 2.9 - - -

Guano Creek

972 13 36S 25E 6480 3-4 19.3 5.6 2.2 - - -

### W E S T   C O A S T   D R A I N A G E

#### UMPQUA RIVER

Diamond Lake

743 29 27S 6E 5315 2-29 31.7 9.6 3.1 18.3 21.2

Champion

522 12 23S 1E 4500 2-29 30.0 9.6 1.7 37.0 -



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 98. *Scirpus yagara* (L.) Link.  
 99. *Scirpus yagara* (L.) Link.  
 100. *Scirpus yagara* (L.) Link.

# TRIBUTARY BASINS

## LOCATION

## SNOW COVER MEASUREMENTS About March 1, 1940

## AVERAGE WATER DEPTH (INCHES)

(Primary & Secondary  
& Snow Courses)

Oregon  
Number

Sec. Twp. Range

Elev.

Date

Avg.  
Snow  
Depth  
(In.)

Avg.  
Water  
Depth  
(In.)

One  
Month  
ago  
(2-1-40)

One  
Year  
ago  
(3-1-39)

Two  
Years  
ago  
(3-1-38)

Three  
Years  
ago  
(3-1-37)

Goolaway Mountain

Goolaway Gap

## ROGUE RIVER

Wagner Butte

Annie Spring

Billie Creek Divide

Hyatt Prairie Reservoir

Fish Lake

Siskiyou Summit

Althouse

Goolaway Mountain

Silver Burn

South Fork Canal

Goolaway Gap

## KLAMATH LAKE BASIN

Summer Rim

Annie Spring

Billie Creek Divide

Strawberry

Quartz Mountain 2/

Sun Mountain

Quartz Mountain

Crowder Flat (California)

Lake of the Woods No. 1

Hyatt Prairie Reservoir

3730

3000

2-27

2-27

5.2

1.5

2.1

0.6

0.0

0.0

10.9

4.9

-

-

-

-

6800

6018

6000

4900

4865

4630

4400

3730

3720

3500

3000

3-5

3-1

2-29

3-4

3-1

2-25

2-29

2-27

3-1

3-1

2-27

42.0

105.1

32.0

11.6

6.9

10.6

12.7

5.2

6.8

0.0

1.5

14.3

38.0

10.8

4.5

2.8

3.0

2.9

2.1

2.5

0.0

0.6

4.0

20.5

3.7

0.0

0.0

0.1

0.0

0.0

0.0

0.0

14.5

34.0

27.8

11.9

17.1

6.6

-

10.9

15.7

9.0

4.9

16.7

41.6

18.4

12.6

11.6

11.3

-

-

16.1

6.8

-

-

37.8

27.4

15.0

17.2

14.5

-

-

16.3

11.6

-

841

831

722

837

836

811

835

723

15

19

17

4

33

22

2

30

11

15

33S

31S

36S

40S

37S

32S

38S

47N

37S

39S

16E

6E

5E

16E

16E

7½E

16E

11E

5E

3E

3-2

3-1

2-29

2-29

2-29

2-27

2-29

2-29

2-29

3-4

48.0

105.1

32.0

17.7

11.0

62.5

8.0

Trace

10.2

Trace

12.6

38.0

10.8

5.0

3.8

21.0

3.1

Trace

2.8

4.5

-

20.5

3.7

2.4

0.0

10.2

Trace

1.5

0.6

0.0

9.2

34.0

27.8

8.7

6.9

22.9

4.8

3.6

9.7

11.9

15.2

41.6

18.4

8.8

10.5

24.4

-

-

-

10.2

12.6

-

37.8

27.4

-

7.2

-

-

-

9.4

15.0







| TRIBUTARY BASINS<br>(Primary & Secondary<br>& Snow Courses) | LOCATION |            | Oregon<br>Number | Elev. | SNOW COVER MEASUREMENTS |                                |                                 | AVERAGE WATER DEPTH (INCHES)    |                                |                                 |                                   |
|---|----------|------------|------------------|-------|-------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|
|   | Sec.     | Twp. Range |                  |       | Date                    | About March 1, 1940            |                                 | One<br>Month<br>ago<br>(2-1-40) | One<br>Year<br>ago<br>(3-1-39) | Two<br>Years<br>ago<br>(3-1-38) | Three<br>Years<br>ago<br>(3-1-37) |
|   |          |            |                  |       |                         | Avg.<br>Snow<br>Depth<br>(In.) | Avg.<br>Water<br>Depth<br>(In.) |                                 |                                |                                 |                                   |
| Richardson Ranch 2/   | 22       | 35S 14E    |                  | 4800  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 2.1                            | 3.2                             | 4.7                               |
| Chemult No. 1   | 21       | 27S 8E     | 834              | 4760  | 2-29                    | 23.2                           | 8.0                             | 5.5                             | 8.7                            | 12.5                            | 10.5                              |
| Yamsey 2/   | 19       | 30S 11E    |                  | 4600  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 1.9                            | 3.0                             | 8.4                               |
| Kirk 2/   | 1        | 33S 7E     |                  | 4533  | 2-29                    | 0.0                            | 0.0                             | 1.8                             | 8.5                            | 7.0                             | 9.5                               |
| Beatty 2/   | 22       | 36S 12E    |                  | 4300  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 0.0                            | 0.0                             | 1.5                               |
| Crystal 2/  | 26       | 34S 6E     |                  | 4200  | 2-29                    | 14.0                           | 5.2                             | 2.2                             | 9.0                            | 6.5                             | 10.5                              |
| Pelican 2/  | 10       | 36S 6E     |                  | 4200  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 5.9                            | 4.0                             | 7.0                               |
| Chiloquin 2/  | 34       | 34S 7E     |                  | 4187  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 3.2                            | 4.4                             | 4.0                               |
| Fort Klamath 2/   | 22       | 33S 7½E    |                  | 4150  | 2-29                    | 0.0                            | 0.0                             | 1.8                             | 6.1                            | 8.6                             | 8.2                               |
| Rocky Point 2/  | 26       | 35S 6E     |                  | 4150  | 2-29                    | 0.0                            | 0.0                             | 0.0                             | 4.8                            | 4.2                             | 9.2                               |
| GOOSE LAKE BASIN  |          |            |                  |       |                         |                                |                                 |                                 |                                |                                 |                                   |
| Strawberry  | 4        | 40S 16E    | 837              | 5600  | 2-29                    | 17.7                           | 5.0                             | 2.4                             | 8.7                            | 8.8                             | -                                 |
| Quartz Mountain 2/  | 33       | 37S 16E    |                  | 5504  | 2-29                    | 11.0                           | 3.8                             | 0.0                             | 6.9                            | 10.5                            | 7.2                               |
| Quartz Mountain   | 2        | 38S 16E    | 811              | 5320  | 2-29                    | 8.0                            | 3.1                             | Trace                           | 4.8                            | -                               | -                                 |

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